

CARTER ET AL. - 10/719,066
Client/Matter: 040046-0306195

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A stent, comprising:
a body with a predetermined length defining a longitudinal axis and two ends;
a plurality of smooth-surfaced wings angularly spaced around the body and extending radially outwardly from the body and extending longitudinally along substantially the entire length thereof, wherein channels are formed between adjacent wings, each channel extending substantially the entire length of the body and defining a fluid flow passage; and
at least one securement barb disposed on one end of the body, the securement barb having a barb root and a barb tip, the barb root securing the securement barb to the body, the securement barb extending generally radially outwardly from the body in cantilevered fashion from the barb root to the barb tip, the securement barb being angled relative to the longitudinal axis with the barb root being located nearer to the end of the body than the barb tip.
2. (Original) The stent according to claim 1, wherein the at least one securement barb comprises two securement barbs, each extending radially outward from each end of the body such that the tips of each of the securement barbs are located nearer to a center of the body than the barb roots.
3. (Original) The stent according to claim 1, wherein the at least one securement barb is disposed at a barb angle equal to or less than 90° relative to the longitudinal axis of the body.
4. (Original) The stent according to claim 3, wherein the barb angle is equal to or less than about 75°.
5. (Original) The stent according to claim 4, wherein the angle is about 65°.
6. (Original) The stent according to claim 3, wherein the angle is between 60° to 90°, inclusive.

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7. (Original) The stent according to claim 1, further comprising at least one conically tapered tip portion disposed at each end of the body.
8. (Original) The stent according to claim 7, wherein the securement barb extends from the conically tapered tip portion.
9. (Original) The stent according to claim 7, wherein the at least one conically tapered tip portion comprises two conically tapered tip portions disposed at each end of the body.
10. (Original) The stent according to claim 9, wherein the at least one securement barb comprises two securement barbs, each extending from a respective conically tapered tip portion.
11. (Original) The stent according to claim 7, wherein the tip portion extends from a transition region on the body, the transition region being located where the radial height of the wings decreases toward the end thereof.
12. (Original) The stent according to claim 1, wherein the wings are disposed substantially parallel to one another.
13. (Original) The stent according to claim 12, wherein there are three or more wings.
14. (Original) The stent according to claim 12, wherein there are six wings.
15. (Original) The stent according to claim 12, wherein the wings extend linearly along the body.
16. (Original) The stent according to claim 12, wherein the wings extend helically along the body.
17. (Original) The stent according to claim 1, further comprising a lumen defined within the body, the lumen extending through the body between the two ends thereof and being constructed and arranged to accommodate a guide wire therein.

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18. (Original) The stent according to claim 1, wherein the securement barb tapers in width from the barb root to the barb tip thereof.

19. (Original) The stent according to claim 18, wherein the barb root extends circumferentially approximately half way around the body.

20. (Original) The stent according to claim 19, wherein the securement barb has a generally teardrop shape.

21. (Original) The stent according to claim 2, wherein the stent is generally symmetric about a plane passing through a longitudinal center thereof and normal to the longitudinal axis of the body.

22. (Original) The stent according to claim 1, wherein the wings each have a wing root and a wing edge and taper in width from the wing root to the wing edge thereof.

23. (Original) The stent according to claim 1, wherein the wings each have a wing root and a wing edge with essentially a constant thickness from the wing root to the wing edge thereof.

24. (Original) The stent according to claim 1, wherein the wings each have a wing root and a wing edge and the wing edges are rounded or blunted slightly.

25. (Original) The stent according to claim 1, wherein the body and the securement barb comprise thermoplastic polyurethane elastomers.

26. (Original) The stent according to claim 1, wherein at least one of the ends of the body has a pigtail configuration.

27. (Currently amended) A stent, comprising:
a body with a predetermined length defining a longitudinal axis and two ends, with a conical tip portion being disposed at each end of the body;

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a lumen defined within the body, the lumen extending through the body between the two ends thereof and being constructed and arranged to accommodate a guide wire therein;

a plurality of smooth-surfaced wings angularly spaced around the body and extending radially outwardly from the body and extending longitudinally along substantially the entire length thereof, wherein channels are formed between adjacent wings, each channel extending substantially the entire length of the body and defining a fluid flow passage; and

a securement barb disposed adjacent to each end of the body and extending from each of the conical tip portions, each securement barb having 1) a barb root securing the securement barb to the body and 2) a barb tip, with the securement barbs each tapering in width from the barb root to the barb tip thereof such that each securement barb has a generally teardrop shape, each securement barb extending generally radially outwardly from the body in cantilevered fashion from the barb root to the barb tip and being disposed at an angle of less than or equal to about 90° relative to the longitudinal axis of the body, the securement barbs being angled in opposite directions with respect to each other, with the barb roots being located nearer to the ends of the body than the barb tips.

28. (Original) The stent according to claim 27, wherein the angle of each securement barb is less than or equal to about 75° relative to the longitudinal axis of the body.

29. (Original) The stent according to claim 27, wherein the angle of each securement barb is about 65° relative to the longitudinal axis of the body.

30. (Original) The stent according to claim 27, wherein the wings are disposed substantially parallel to one another.

31. (Original) The stent according to claim 27, wherein the wings extend linearly along the body.

32. (Original) The stent according to claim 27, wherein the wings extend helically along the body.

33. (Original) The stent according to claim 27, wherein the body and the wings comprise thermoplastic polyurethane elastomers.

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- 34. (Previously presented) The stent according to claim 1, wherein the stent is a biliary stent.
- 35. (Previously presented) The stent according to claim 1, wherein the stent is a venous stent.
- 36. (Previously presented) The stent according to claim 1, wherein the stent is an arterial stent.
- 37. (Previously presented) The stent according to claim 27, wherein the stent is a biliary stent.
- 38. (Previously presented) The stent according to claim 27, wherein the stent is a venous stent.
- 39. (Previously presented) The stent according to claim 27, wherein the stent is an arterial stent.